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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/687,109	10/15/2003	P. Mark Hogarth	5478-4-1	8719
22442 7590 11/16/2007 SHERIDAN ROSS PC			EXAMINER	
1560 BROADWAY			BORIN, MICHAEL L	
SUITE 1200 DENVER, CO	80202		ART UNIT	PAPER NUMBER
,			1631	*
			MAIL DATE	DELIVERY MODE
			11/16/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

·	Application No.	Applicant(s)				
	10/687,109	HOGARTH ET AL.				
Office Action Summary	Examiner	Art Unit				
	Michael Borin	1631				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period or Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may a will apply and will expire SIX (6) MO e, cause the application to become	IICATION. a reply be timely filed DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).				
Status		•				
1) Responsive to communication(s) filed on 16 A	-					
	,					
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	<u>-х рапе Quayle, 1935 С.</u>	.D. 11, 453 O.G. 213.				
Disposition of Claims						
4) ☐ Claim(s) 58-64 and 75-84 is/are pending in the 4a) Of the above claim(s) 78-84 is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 58-64,75-77 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Examine	er.					
10)☐ The drawing(s) filed on is/are: a)☐ acc		,				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview	w Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 07/02/2004 5) Notice of Informal Patent Application 6) Other:						

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DETAILED ACTION

Status of Claims

Claims 58-64,75-84 are pending.

Response to restriction requirement filed 08/16/2007 is acknowledged. Applicant elected, without traverse, Group A, claims 76,77. The claims will be addressed together with linking claims 58-64,75. Claims 78-84 are withdrawn from consideration.

The art rejection over Shreiber et al (US 2002/0068703) is withdrawn in view of applicant's election of species of inhibitors that bind to the surface of the Ig-binding site of the FcγRIIa protein, but will be re-applied once the prosecution proceeds beyond the elected species.

Information Disclosure Statement

Applicants' Information Disclosure Statement filed 07/02/2004 has been received and entered into the application. Accordingly, as reflected by the attached completed copies of forms PTO-1449, the cited references have been considered.

Claim Rejections - 35 USC § 112, first paragraph.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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Claims 58-64,75-77 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The claims, as defined by claims 76,77, are directed to therapeutic composition comprising an inhibitory compound that inhibits the activity of the Fc receptor, Fcγ receptor (FcγR), wherein said inhibitory compound binds to said FcγR protein. The inhibitory compound, without being addressed in particular, is described as being identified by the method comprising the following steps:

- a) providing a three dimensional structure of an FcγRIIa protein (as in elected group, claim 77), wherein said three dimensional structure of said FcγR protein substantially conforms to atomic coordinates represented by Table 1;
- b) using said three dimensional to design a chemical compound that binds to a surface on the Ig-binding site of the FcγRIIa protein, comprising a structure defined by the conformation of residues 155, 156, 158-160, 113-116,129, 131,133 and 134 of SEQ IDNO:3,

so that the compound either inhibits binding of the FcyR protein to IgG, or substantially mimics the three dimensional structure of FcyR protein, or inhibits binding of FcyR protein with a molecule that stimulates cellular signal transduction through an FcyR protein;

- c) chemically synthesizing said chemical compound; and
- d) evaluating the ability of said synthesized chemical compound to reduce IgG-mediated tissue damage

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The inventor must be able to describe the item to be patented with such clarity that the reader is assured that the inventor actually has possession and knowledge of the unique method that makes it worthy of patent protection. The reader can certainly appreciate the goal but establishing goals does not make a patent. As the Court of Appeals for the Federal Circuit stated in a case involving similar issues, an inadequate patent description that merely identifies a plan to accomplish an intended result "is an attempt to preempt the future before it has arrived." Fiers v. Revel, 984 F.2d 1164, 1171 (Fed. Cir.1993). To satisfy the written-description requirement, the specification must describe every element of the claimed invention in sufficient detail so that one of ordinary skill in the art would recognize that the inventor possessed the claimed invention at the time of filing. Vas-Cath, 935 F.3d at 1563; see also Lockwood v. American Airlines, Inc., 107 F.3d 1565, 1572 (Fed. Cir. 1997) (patent specification must describe an invention and do so in sufficient detail that one skilled in the art can clearly conclude that "the inventor invented the claimed invention"). There is no demonstration in the specification that applicants generated any compound which, after computer generation and synthesizing, demonstrated ability to reduce IgG-mediated tissue damage, leave alone produce a "therapeutic" effect. Similarly to In re Wilder, 736 F.2d 1516 (Fed. Cir. 1984), cert. denied, 469 U.S. 1209 (1985) the specification did "little more than outline goals applicants hope the claimed invention achieves and the problems the invention will hopefully ameliorate."

Examiner does not dispute whether applicants were in possession of a method of determining binding Fc receptor, however at issue is whether applicant has produced

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and was in possession of a compound which binds to a surface on the Ig-binding site of the FcγRIIa protein, comprising a structure defined by the conformation of residues 155, 156, 158-160, 113-116,129, 131,133 and 134 of SEQ IDNO:3, so that the compound either inhibits binding of the FcγR protein to IgG, or inhibits binding of FcγR protein with a molecule that stimulates cellular signal transduction through an FcγR protein.

Section 112, first paragraph, requires the patentee to "show that an invention is complete by disclosure of substantially detailed, relevant identifying characteristics which provide evidence that applicant was in possession of the invention. Even if the inventors were reasonably certain that a compound which binds to a surface on the Igbinding site of the FcyRlla protein will be inhibiting binding of the FcyR protein to, there is no showing in the patent that they knew that to be a fact. Further, there is no showing that applicants were in possession of composition capable to produce "therapeutic effect". Would, for example a compound that merely "mimics the three dimensional structure of FcyR protein" be expected to have therapeutic effect? There is no showing of a single embodiment demonstrating composition that is "therapeutic". The reader can certainly appreciate the goal but establishing goals does not make a patent. As was mentioned in the rejection, the Court of Appeals for the Federal Circuit stated in a case involving similar issues, an inadequate patent description that merely identifies a plan to accomplish an intended result "is an attempt to preempt the future before it has arrived." Fiers v. Revel, 984 F.2d 1164, 1171 (Fed. Cir. 1993).

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Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Borin whose telephone number is (571) 272-0713. The examiner can normally be reached on 9am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marjorie Moran can be reached on (571) 272-0720. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

> Michael Borin, Ph.D. Primary Examiner
> Art Unit 1631

mlb 11/07/07